Fairfax County Community-wide Energy and Climate Action Plan (CECAP)

Public Feedback Session

Thursday, May 20, 2021
7:00 PM – 8:30 PM

Held Electronically via WebEx

Welcome & Meeting Overview

Candace Blair Cronin, Ph.D., ICF Facilitator

Agenda

Welcome and Meeting Overview

CECAP Process

Section by Section Review & Discussion

Greenhouse Gas Inventory & Projections

Greenhouse Gas Reduction Model

Greenhouse Gas Reduction Goals

Emission Reduction Strategies

Open Discussion on What You Want to Know Next?

Wrap Up and Next Steps

Meeting Purpose

- **Educate and inform** you about the Community-Wide Energy and Climate Action Plan (CECAP).
- **Understand** your opinions and ideas on the products of the CECAP planning process.
- **Gather** your ideas to inform our Fall 2021 educational campaign and next steps.

Getting to Know You

- How did you hear about this meeting?
  - Facebook, YouTube, Twitter, NextDoor, Email (e.g., email from Fairfax County or from another organization), someone told me about it
- To what extent are you personally concerned about climate change?
  - Very concerned, slightly concerned, not concerned
- How familiar are you with the CECAP process?
  - Very familiar, somewhat familiar, not familiar at all
- Where do you live within the County?
  - Braddock, Lee, Springfield, Sully, Providence, Mount Vernon, Hunter Mill, Mason, or Dranesville
- In the future, how would you prefer to hear about CECAP?
  - Facebook, YouTube, Twitter, NextDoor, email, posters, flyers, etc.

CECAP Process Overview

Maya Dhavale, Fairfax County

CECAP Process

Community Engagement & Public Input

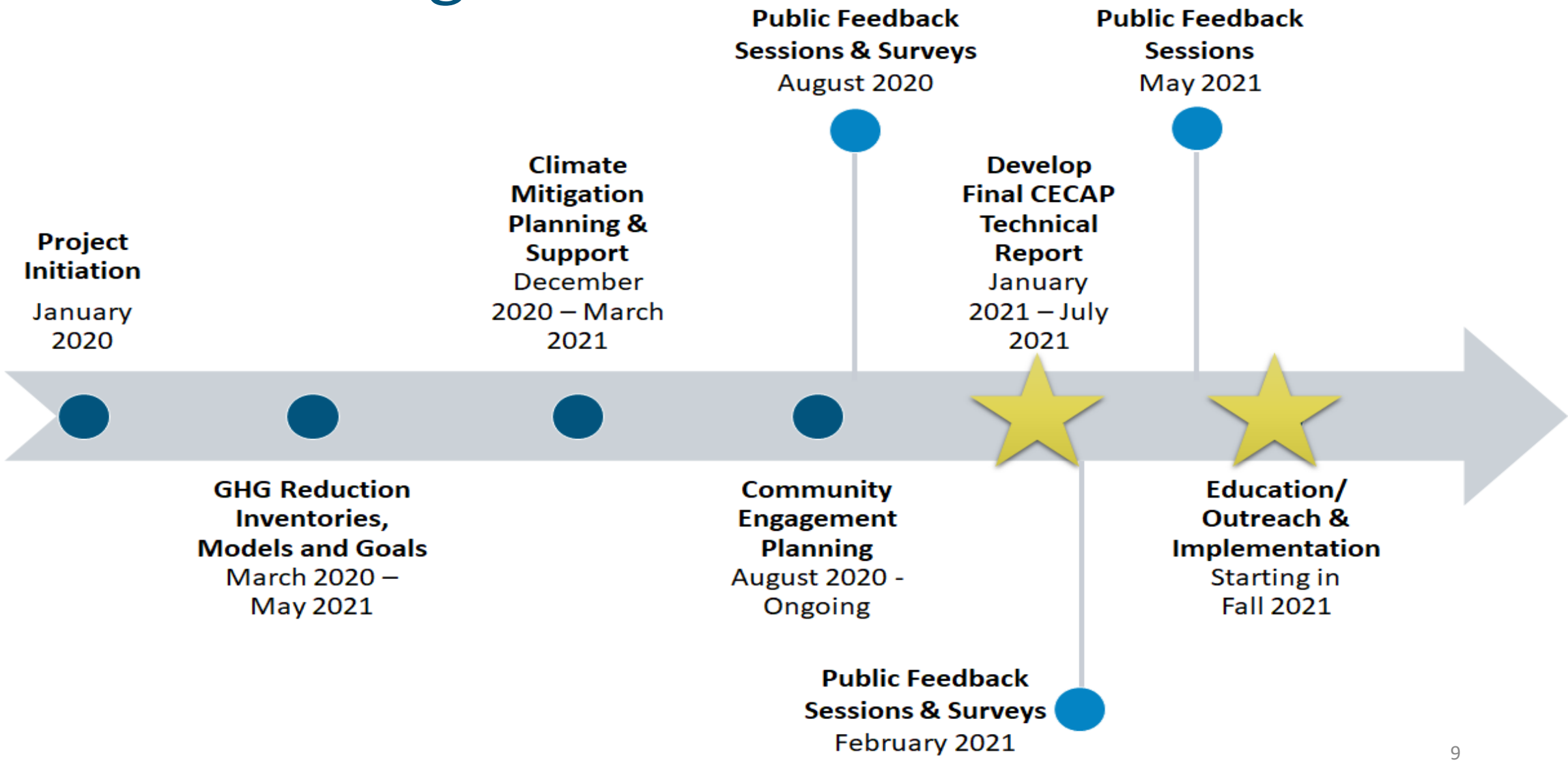
Public

- Input and implementation roles
- Online access
- Outreach
- Public feedback meetings
- Public surveys

CECAP Working Group

- Decision-making role
- Recommends Plan to Board of Supervisors
- County-wide representation
- Meetings open to the public

CECAP Planning Process



Greenhouse Gas Emissions Inventory & Projections

Adam Agalloco - ICF
Candace Blair Cronin, Ph.D. – ICF Facilitator

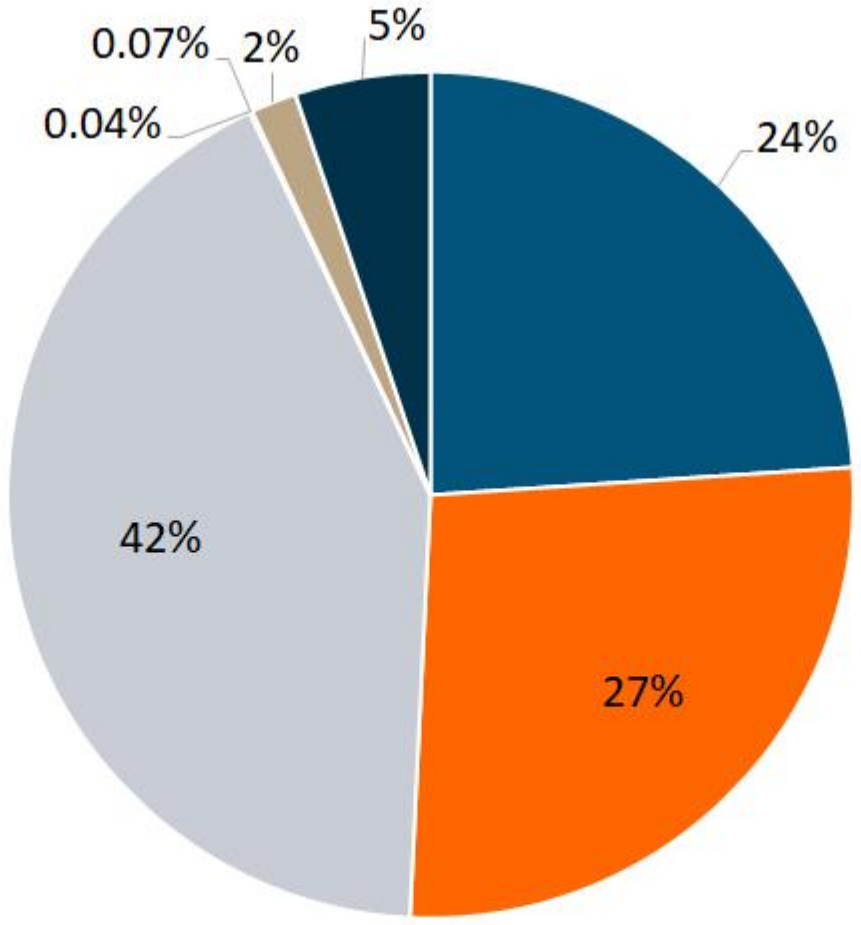
Key Terms

- **Greenhouse Gas (GHG):** A gas that traps heat in the atmosphere, such as carbon dioxide or methane.*
- **GHG Inventory:** GHG inventories provide an accounting of greenhouse gas emissions from man-made sources within a specified boundary (for example, within Fairfax County).
- **Sectors:** Sources of greenhouse gas emissions are categorized by economic sector. Major sectors include transportation, electricity, industry, commercial/residential, and agriculture.

Visit the OEEC webpage All About Climate Change for more information.

*EPA GHG Overview

Fairfax County 2018 GHG Inventory Sector Shares



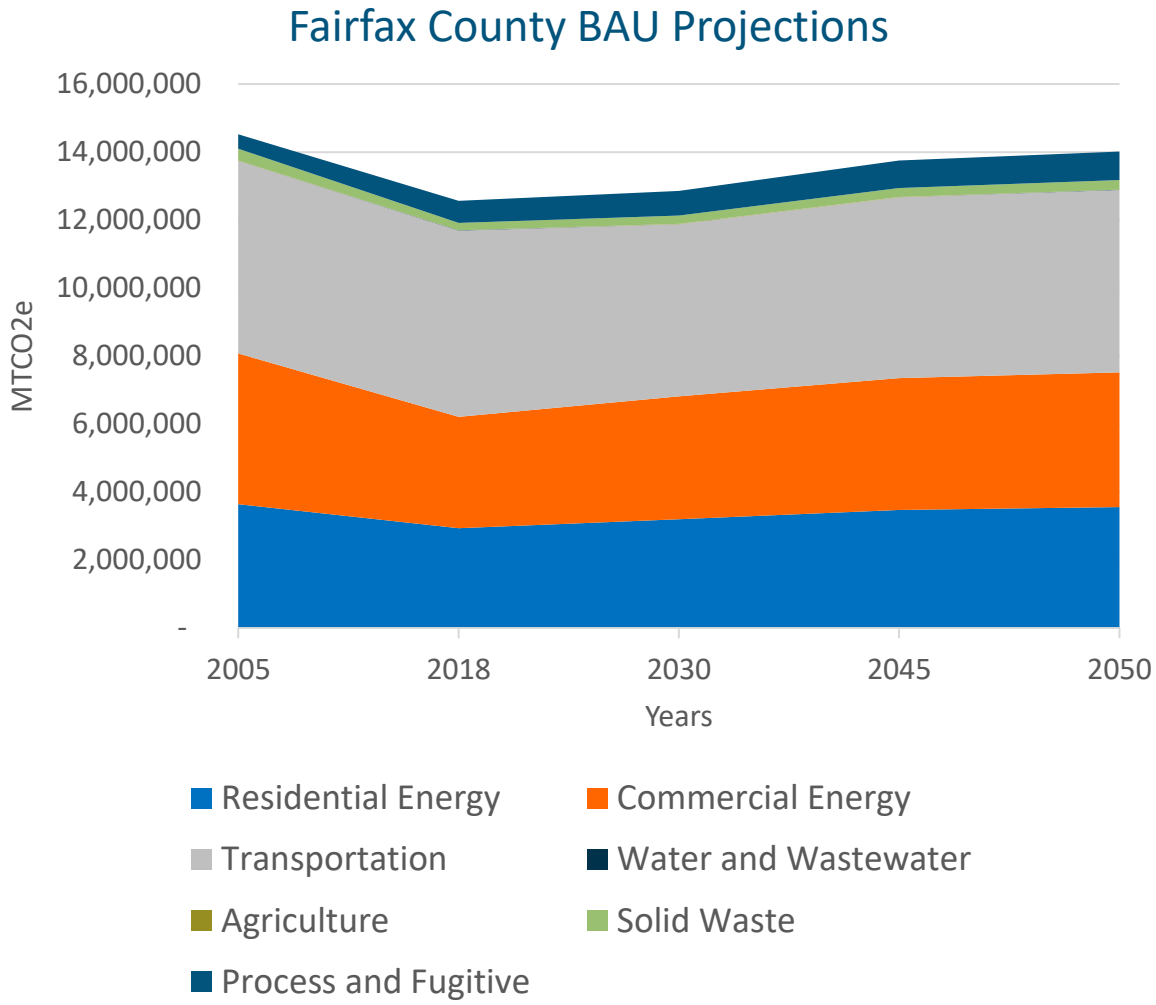
Total:
12.2 MMT CO_2e

■ Residential Energy ■ Commercial Energy ■ Transport ■ Water Treatment ■ Agriculture ■ Waste ■ Process & Fugitive Emissions

Metropolitan Washington Council of Governments

Fairfax County Business as Usual (BAU) Community Emissions

- Increase by 2% from 2018-2030
  - Associated with a decrease in on-road transportation emissions
- Increase by 11.5% from 2018-2050 (9% from 2030-2050)
  - Associated with economic growth, increased VMT, and greater aviation emissions



Greenhouse Gas Reduction Model

Adam Agalloco - ICF

Key Terms for CECAP

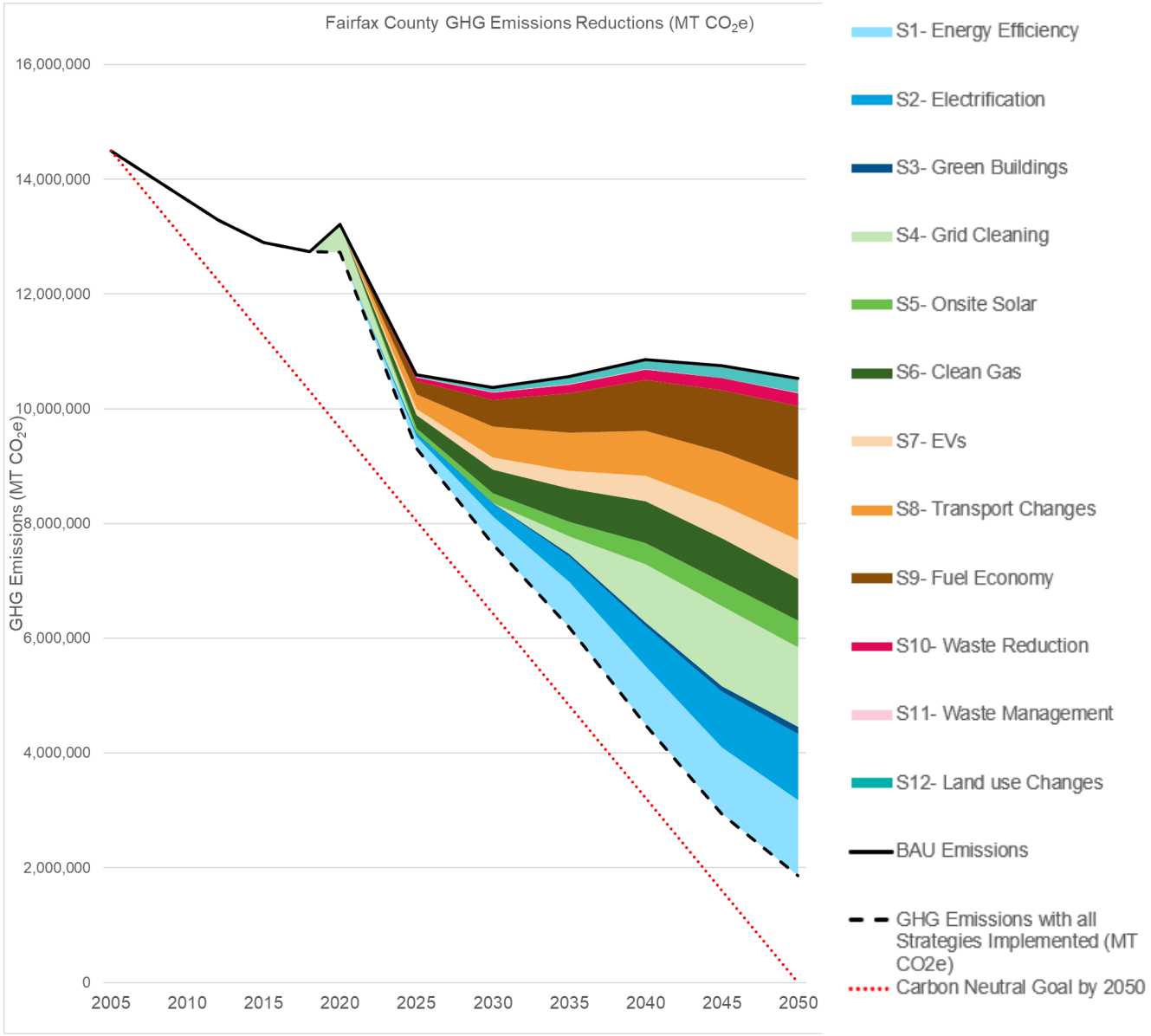
Sector: An area of emissions focus or an economic sector which generates carbon emissions from its energy use or economic activity.

- Examples of sectors include buildings, renewable energy, energy efficiency, transportation, and waste.

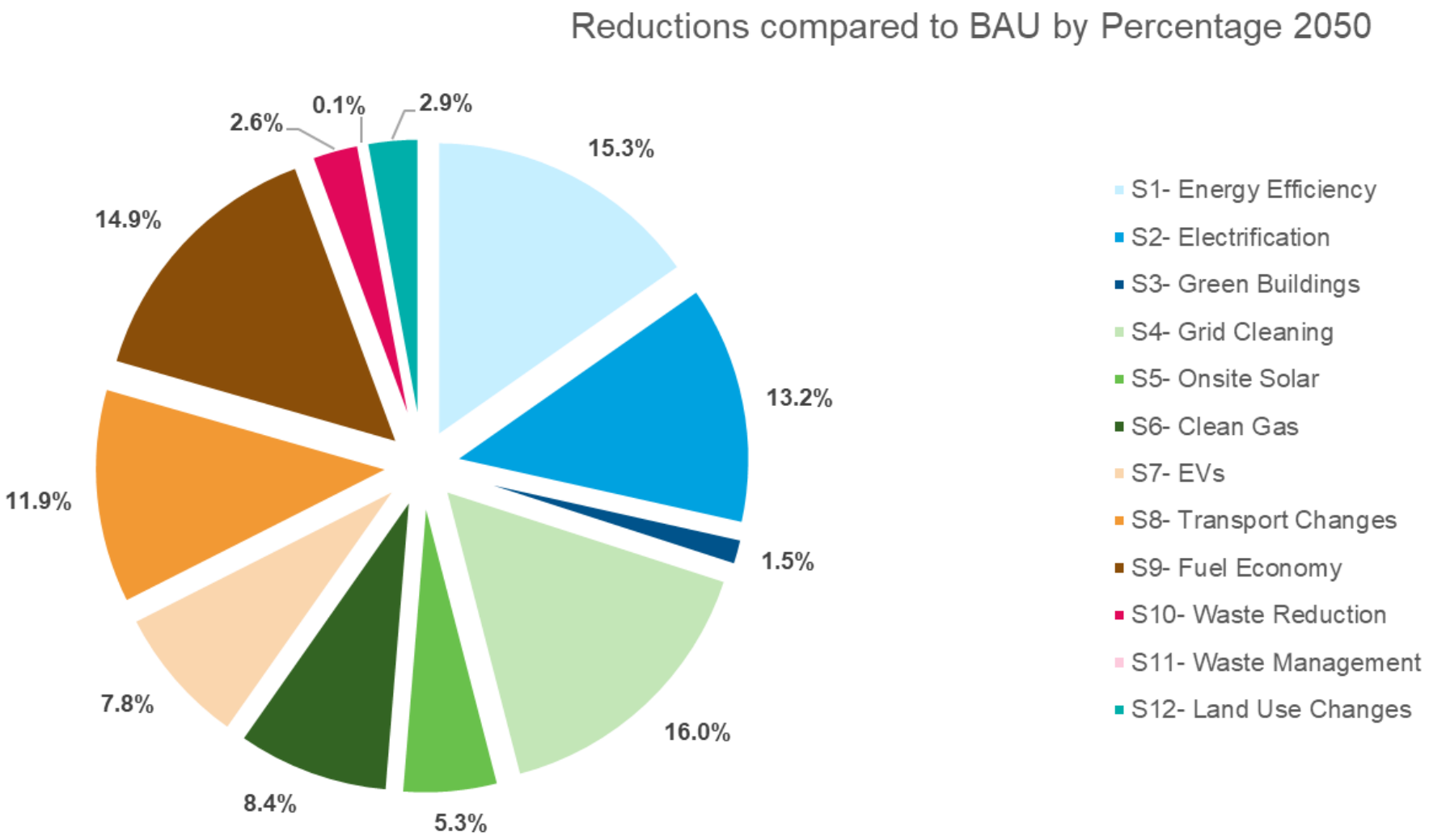
Strategy: A broader set of actions or set of sub-sector work that can be modeled to understand emissions reductions.

Action: A project or specific technology that impacts greenhouse gas emissions within a strategy or sector.

GHG Reduction Pathway (2005-2050)



GHG Reductions by Strategy by 2050 (% by 2050)



Greenhouse Gas Emissions Reduction Goals

Adam Agalloco - ICF
Candace Blair Cronin, Ph.D. – ICF Facilitator

Terms for Goal Setting

- **Long term goal:** The emission reduction levels that a government or organization sets out to achieve by a specified time, or target year.*
- **Interim goal:** A goal that provides a progress point for the long term goal and works to create accountability within the plan.
- **Sector-specific goal:** A goal set for sector-specific metrics that would contribute to the overall goal of reducing emissions and/or energy use.

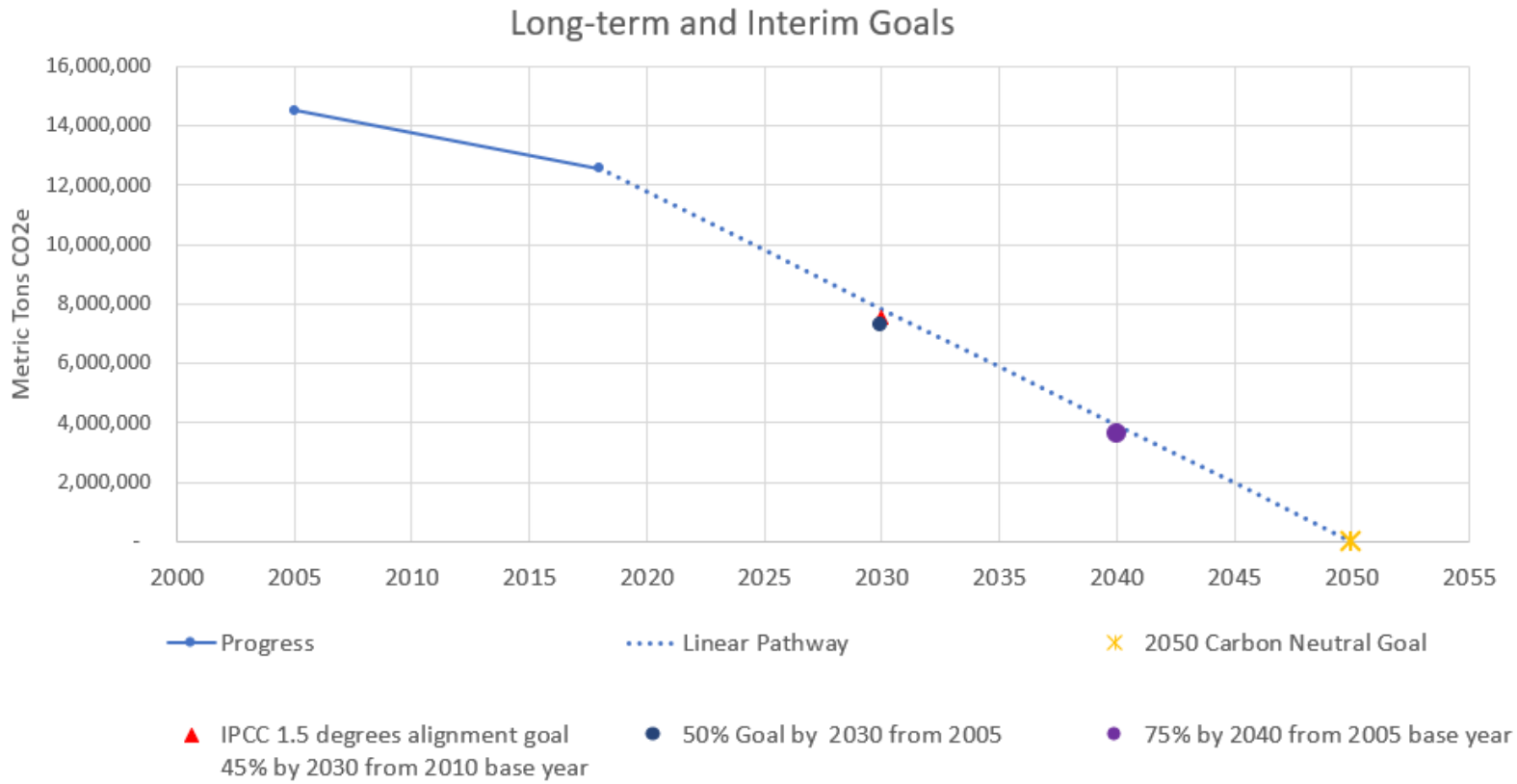
*C2ES US State GHG Emissions Targets

Long-Term and Interim Goals

2030 Interim goal: 50% reduction by 2030 from a 2005 base year.

2040 Interim goal: 75% reduction by 2040 from a 2005 base year.

2050 Long-term goal: Carbon neutrality by 2050, with at least 87% achieved with emission reductions from a 2005 base year.



Sector-Based Goals

- **Buildings & Energy Efficiency:** All new, eligible buildings will have a commitment to green building
- **Buildings & Energy Efficiency:** Retrofit at least 100,000 housing units with energy efficiency measures by 2030
- **Transportation:** Increase transit and non-motorized commuting to 30% (including telework) by 2030
- **Transportation:** Increase plug-in electric vehicles (PHEVs) and battery electric vehicles (BEVs) to at least 9% of all light-duty vehicle registrations by 2030
- **Natural Resources:** Goal is currently under discussion. The current draft goal is focused on tree canopy.

CECAP Strategies

Adam Agalloco - ICF
Candace Blair Cronin, Ph.D. – ICF Facilitator

Buildings and Energy Efficiency

- Strategy #1: Increase energy efficiency and conservation in existing buildings.
- Strategy #2: Pursue beneficial electrification in existing buildings.
- Strategy #3: Implement green building standards for new buildings.

Energy Supply

- Strategy #4: Increase renewable energy in grid
- Strategy #5: Increase production of onsite renewable energy
- Strategy #6: Increase energy supply from renewable natural gas (RNG), hydrogen, and power-to-gas

Transportation

- Strategy #7: Increase electric vehicle (EV) adoption
- Strategy #8: Support efficient land use, active transportation, public transportation and transportation demand management (TDM) to reduce vehicle miles traveled
- Strategy #9: Increase fuel economy and use of low carbon fuels for transportation

Waste

- Strategy #10: Reduce the amount of waste generated and divert waste from landfills and waste to energy facilities.
- Strategy #11: Responsibly manage all waste generated including collected residential and commercial waste, wastewater, and other items.

Natural Resources

- Strategy #12: Support preservation, restoration, and expansion of Fairfax County's natural systems and green spaces

What Do You Want to Know More About Next?

Candace Blair Cronin, Ph.D., ICF Facilitator

Tell Us What You Want to Know

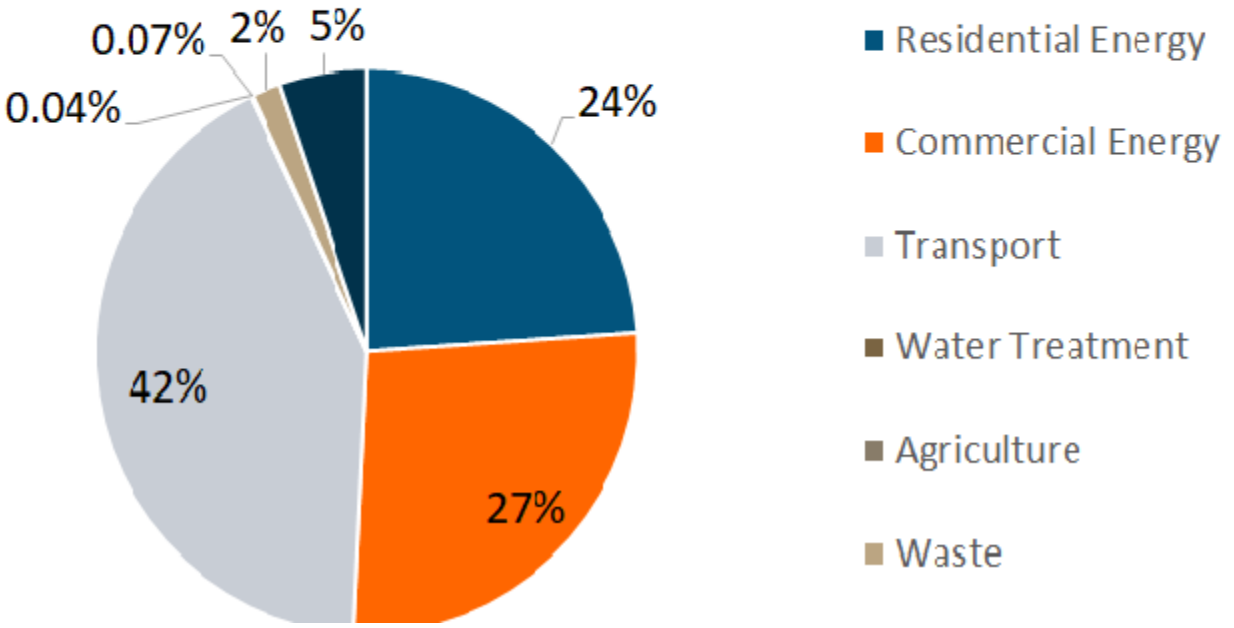
- What is something new you learned today that your neighbors don’t know?
- What would you like to learn more about as we begin implementing CECAP?
- What resources would be helpful?
- What are the best ways for us to share information with the community?

Wrap Up and Next Steps

Candace Blair Cronin, Ph.D., ICF Facilitator
Maya Dhavale, Fairfax County

Let's Hear From You

1. What is the highest emitting sector, based on Fairfax County's latest greenhouse gas inventory?
   A. Agriculture
   B. Commercial Energy
   C. Process & Fugitive Emissions
   D. Residential Energy
   E. Transport
   F. Waste
   G. Water Treatment



Tell Us More

2. What strategy are you most excited about?

- S1: Increase **energy efficiency** and conservation in existing buildings
- S2: Pursue **beneficial electrification** in existing buildings
- S3: Implement **green building standards** for new buildings
- S4: Increase **renewable energy** in **grid** mix
- S5: Increase production of **onsite renewable energy**
- S6: Increase energy supply from **renewable natural gas (RNG), hydrogen**, and **power-to-gas**
- S7: Increase **electric vehicle (EV)** adoption
- S8: Support **efficient land use, active transportation, public transportation, and transportation demand management (TDM)** to reduce vehicle miles traveled
- S9: Increase **fuel economy** and **use of low carbon fuels** for transportation
- S10: **Reduce the amount of waste generated and divert waste** from landfills and waste-to-energy facilities
- S11: **Responsibly manage waste** generated including collected residential and commercial waste, wastewater and other items
- S12: Support preservation, restoration, and expansion of Fairfax County's **natural systems** and **public spaces**

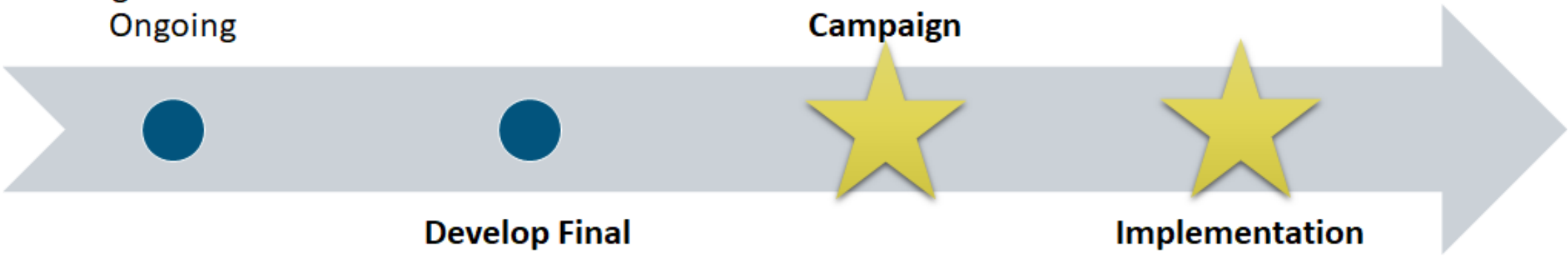
Next Steps

Community Engagement Planning
August 2020 - Ongoing

Develop Final CECAP Technical Report
January 2021 – July 2021

Fall Educational Campaign

Implementation



Get Involved

- **Review the report** when it goes to the Board in July.
- **Look out** for the Fall 2021 educational campaign.
- **Email to become a CECAP Community Partner.** Help advocate for and enact changes in your community that will lower our collective greenhouse gas emissions.
- **Follow or Like** the Fairfax County Climate and Energy Facebook page, and join the online conversation.
- **Spread the word!**

Stay in Touch & Spread the Word

CECAP Homepage

Office of Environmental & Energy Coordination (OEEC) Climate Action News Blog

Twitter: @ffxgreen / #ffxCECAP

Follow for updates on the CECAP process, as well as information on climate and energy science, policy, and best practices.

Learn about the topics and trends driving the climate conversation in Fairfax County.

Thank You!

For further questions, please contact:

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